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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,562	03/21/2001	Tadahiro Uehara	826.1705/JDH	2631

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EXAMINER

NGUYEN, LOAN B

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 10/24/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

A

Office Action Summary

Application No.

09/812,562

Applicant(s)

UEHARA ET AL.

Examiner

Loan B Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3:
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

1. Claims 1-17 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claim 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Frey et al. (6442564) (hereinafter Frey et al.).

4. As per claim 1, Frey et al. teaches an object managing apparatus managing an object used by an application program including one or more components, in a component base that is a base for configuring and executing the application program, comprising:

a selecting device selecting an object managing method suitable for a type of a component, from a plurality of object managing methods that are prepared in advance (e.g. col. 7 line 6-25); and

a switching device switching in the component base, at least one of an object caching part that caches a persistence object corresponding to data of an external storage using a specified algorithm and an object persistence processing part performing conversion between the data of

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the external storage and the persistence object, with a part corresponding to the selected object managing method (e.g. col. 7 line 60-64).

5. As per claims 13, 14, 15, 16 and 17 are rejected for similar reasons as stated above.

6. As per claim 2, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching automatically generates a program of the part corresponding to the selected object managing method, and incorporates the program in the object managing apparatus (e.g. col. 11 line 31-56).

7. As per claim 3, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching device selects the part corresponding to the selected object managing method that is prepared in advance, and incorporates the selected part in the object managing apparatus (e.g. col. 8 line 48-56 and col. 12 line 55-63).

8. As per claim 4, Frey et al. teaches the object managing apparatus according to claim 1, wherein the selecting device selects the object managing method that is designated by a user (e.g. col. 9 line 24-25).

9. As per claim 5, Frey et al. teaches the object managing apparatus according to claim 1, wherein the selecting apparatus selects the object managing method that is designated by the application program (e.g. col. 26 line 2-30).

10. As per claim 6, Frey et al. teaches the object managing apparatus according to claim 1, wherein the selecting device includes an input device inputting usage information of the component, and selects the object managing method based on the usage information (e.g. col. 12 line 16-26).

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11. As per claim 7, Frey et al. teaches the object managing apparatus according to claim, wherein the switching device has a cache table caching an object for each transaction, and uses an object caching part that register, an object in the cache table after a transaction starts, and clears the cache table when the transaction terminates, as the part corresponding to the selected object managing method (e.g. col. 15 line 14-65).

12. As per claim 8, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching apparatus has a cache table common to all transactions, and uses an object caching part which does not clear the cache table but makes the other transaction use an object on the cache table when one transaction terminates, as the part corresponding to the selected object managing method (e.g. col. 16 line 35-66).

13. As per claim 9, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching device uses an object caching part that writes data of an object being used by the application program in the external storage, and sets next data to the object being used, thereby returning the data to the application program when the application program requests acquisition of an object to be processed, as the part corresponding to the selected object managing method (e.g. Fig. 12a and col. 21 line 16-30).

14. As per claim 10, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching device uses the object caching part that caches all data of the external storage in advance before the application program requests an object to be processed, as the part corresponding to the selected object managing method (e.g. col. 17 line 45-52).

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15. As per claim 11, Frey et al. teaches the object managing apparatus according to claim 1, wherein the switching device uses an object caching part that registers an interface related to the persistence object, and reuses the interface together with the persistence object, as the part corresponding to the selected object managing method (e.g. col. 39 line 8-19).

16. As per claim 12, Frey et al. teaches the object managing apparatus according to claim 1, further comprising a designating device designating one or more data items suitable for the type of the component, wherein the switching device uses an object persistence processing part that performs conversion between data of the external storage and the persistence object regarding designated data items of the persistence object, as the part corresponding to the selected object managing method (e.g. col. 41 line 19-24 and 59-67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Loan B. Nguyen whose telephone number is (703) 305-0358.

The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

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Loan B. Nguyen

October 15, 2003

A handwritten signature in black ink, appearing to be 'JF', written over a faint horizontal line.

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100